IN THE CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

LISTING OF CLAIMS

1. (Currently Amended) A method for grouping cells comprising:

generating [a linear program representing] a sum of weighted values associated with each cell, which represent a paging cost, and each edge between adjacent cells, which represent an updating cost, and grouping constraints; and

assigning a cell to a group based on the weighted value sums [solutions of the linear program.]

- 2. (Currently Amended) The method as in claim 1 wherein the generation of the weighted value sums produces [solutions comprise] fractional values.
 - 3. (Original) The method of claim 1 wherein each cell comprises a wireless cell.
 - 4. (Canceled)
- 5. (Original) The method of claim 2 further comprising rounding the fractional values into integer values.
- 6. (Original) The method as in claim 5 further comprising rounding the fractional values using region growing.
- 7. (Currently Amended) The method as in claim <u>5</u> [1] wherein <u>rounding further</u> [the linear program] comprises <u>using</u> a variable, where the variable equals:
 - a first value, if elements i and j belong to different groups, or a second value, if i and j belong to the same group.

- 8. (Original) The method as in claim 7 wherein the first value equals 1 and the second value equals 0.
- 9. (Original) The method as in claim 1 wherein the group comprises a location area associated with one or more wireless networks.
- 10. (Original) The method as in claim 5 further comprising approximating costs associated with updating and paging operations of one or more wireless networks from the rounded values.
 - 11. (Currently Amended) A method for grouping cells [in a line] comprising:

generating [a dynamic program representing] a sum of weighted values associated with each cell <u>in a line</u>, which represent a paging cost, and each edge between adjacent cells <u>in a line</u>, which represent an updating cost, and grouping constraints; and

assigning a cell to a group based on the weighted value sums [solutions of the dynamic program].

12. (Currently Amended) A [programmed device] <u>computer readable medium</u> for grouping cells operable to:

generate [a linear program representing] a sum of weighted values associated with each cell, which represent a paging cost, and each edge between adjacent cells, which represent an updating cost, and grouping constraints; and

assign a cell to a group based on the weighted value sums [solutions of the linear program.]

13. (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim 12 wherein the [solution comprises] <u>generatation of the weighted value sums produces</u> fractional values.

- 14. (Currently Amended) The [programmed device] <u>computer readable medium</u> of claim 12 wherein each cell comprises a wireless cell.
 - 15. (Canceled).
- 16. (Currently Amended) The [programmed device] <u>computer readable medium of</u> claim 13 further operable to round the fractional values into integer values.
- 17. (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim 16 further operable to round the fractional values using region growing.
- 18. (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim <u>16 further operable to round the fractional values using [12 wherein the linear program comprises] a variable, where the variable equals:</u>
 - a first value, if elements i and j belong to different groups, or a second value, if i and j belong to the same group.
- 19. (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim 18 [14] wherein the first value equals 1 and the second value equals 0.
- 20. (Currently Amended) The [programmed device] as in claim 12 wherein the group comprises a location area associated with one or more wireless networks.
- 21. (Currently Amended) The [programmed device] <u>computer readable medium</u> as in claim 16 [12] further operable to approximate costs associated with updating and paging operations of one or more wireless networks from the rounded values.
- 22. (Currently Amended) A [programmed device] <u>computer readable medium</u> for grouping cells [in a line] operable to:

generate [a dynamic program representing] a sum of weighted values associated with each cell in a line, which represent a paging cost, and each edge between adjacent cells in a line, which represent an updating cost, and grouping constraints; and

assign a cell to a group based on the weighted value sums [solutions of the dynamic program.]